

REMARKS/ARGUMENTS**1. Rejection of claims 1-11 under 35 U.S.C. 102(b):**

Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Gupta et al (US 6,272,594).

5

Response:

The applicant would like to point out the patentable differences between independent claims 1, 5, and 9 of the instant application and the Gupta reference. Each of the claims 1, 5, and 9 contains the limitation of "a single-channel memory controller" that is used to control data and control signals sent through first and second memory buses. By using a single-channel memory controller, the present invention allows motherboards originally designed for a two-channel memory controller to be controlled by a single-channel memory controller.

10

Gupta, on the other hand, does not teach the use of a single-channel memory controller, and instead teaches that the memory controller acts as a dual-channel memory controller. In column 6, lines 9-16, Gupta teaches that the memory controller provides separate memory buses that support independent simultaneous memory transactions. Therefore, Gupta does not teach the use of a single-channel memory controller, as is recited in claims 1, 5, and 9.

15

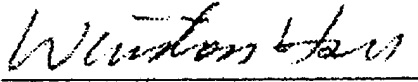
20

For these reasons, claims 1, 5, and 9 are patentably distinguished from the prior art. Claims 2-4, 6-8, and 10-11 are dependent on claims 1, 5, and 9, and should be allowed if claims 1, 5, and 9 are allowed. Reconsideration of claims 1-11 is respectfully requested.

25

In view of the above arguments in favor of patentability, the applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Sincerely yours,



Date: 03.28.2006

Winston Hsu, Patent Agent No. 41,526

5 P.O. BOX 506, Merrifield, VA 22116, U.S.A.

Voice Mail: 302-729-1562

Facsimile: 806-498-6673

e-mail : winstonhsu@naipo.com

- 10 Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 13 hours behind the Taiwan time, i.e. 9 AM in D.C. = 10 PM in Taiwan.)